

Appl. No. 10/577,703
Amdt. Dated October 30, 2009
Reply to Office Action of July 17, 2009

Attorney Docket No. 81887.0145
Customer No.: 26021

Remarks/Arguments

Claims 3 and 9 are amended. Claims 1-9 are pending in the application. Reexamination and reconsideration of the application, as amended, are respectfully requested.

Claim Rejections Under 35 USC § 102

Claims 3, 7, and 9 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Fenner (U.S. Pat, No. 5,860,136). Applicant respectfully traverses this rejection.

Claim 3 as amended is as follows:

A mobile communication managing apparatus comprising:

- a mobile communication terminal side receiving section which receives data that is assigned with two kinds of addresses including a mobile communication terminal identification address for identifying a mobile communication terminal capable of having a plurality of communication interfaces and a communication interface identification address for identifying a communication interface of the mobile communication terminal;
- an address storing section which stores an address table in which the mobile communication terminal identification address and the communication interface identification address that are assigned to the received data are associated with each other;
- a communication apparatus side transmitting section which transmits the data received by the mobile communication terminal side receiving section to a certain destination;
- a communication apparatus side receiving section which receives data being assigned with a mobile communication terminal identification address;
- a communication interface detecting section which detects a communication interface identification address that corresponds to the mobile communication terminal identification address being assigned to the data received by the communication apparatus side receiving section based on the address table; and
- a mobile communication terminal side transmitting section which transmits the data received by the communication apparatus side receiving section via the detected communication interface.

Applicant respectfully submits that Fenner fails to disclose or teach at least a mobile communication managing apparatus comprising: 1) a mobile communication terminal side receiving section; 2) an address storing section; 3) a communication apparatus side transmitting section; 4) a communication apparatus side receiving section; 5) a communication interface detecting section; and 6) a mobile communication terminal side transmitting section. In contrast, Fenner discloses a prior art communication network comprising independent entities with respect to each and each system uses a particular hardware that is appropriate for its own communication (col. 8, ll. 33-44 & fig. 1). More specifically, the network uses a plurality of nodes that form multipath connections between a plurality of network communication systems (col. 9, ll. 26-31). The nodes transmit data from one node to another until the data reaches the location to where the information should be transmitted (col. 10, ll. 9-33). The present claims disclose an apparatus that is a single unit. Fenner discloses an interconnecting network of nodes comprising individual entities. As such, Fenner does not disclose the mobile communication managing apparatus as set forth by claim 3.

Claim 7 as amended is as follows:

A computer readable medium storing a program of instruction executable by a computer to perform a function for mobile communication management, the function comprising the steps of:

receiving data that is assigned with two kinds of addresses including a mobile communication terminal identification address for identifying a mobile communication terminal capable of having a plurality of communication interfaces and a communication interface identification address for identifying a communication interface of the mobile communication terminal from the mobile communication terminal;

storing an address table in which the mobile communication terminal identification address and the communication interface identification address that are assigned to the received data are associated with each other;

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transmitting the received data to a certain destination;
receiving data assigned with a mobile communication terminal identification address from a communication apparatus;
detecting a communication interface identification address that corresponds to the mobile communication terminal identification address being assigned to the data received from the communication apparatus based on the address table; and
transmitting the data received from the communication apparatus via the detected communication interface.

Applicant respectfully submits that Fenner fails to disclose or teach at least the step of: receiving data that is assigned with two kinds of addresses including a mobile communication terminal identification address and a communication interface identification address. In contrast, Fenner discloses methods of transmitting a message format that includes the unique code of the message sender (aircraft (10)) and the unique identification code for the intended recipient (ship (12)). The message is sent to the nearest system (14) (col. 9, ll. 33-36). In other words, Fenner does not disclose a communication interface identification address. As such Fenner does not teach or suggest the computer readable medium storing function of claim 7. Likewise, claim 9 is also patentable over Fenner for at least the same reasons as claim 7.

Claim Rejections Under 35 USC § 103

Claims 1-2 and 6 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Matsugatani, et al. (U.S. Pub. No. 20020080778) and further in view of Urabe (U.S. Pat. No. 6,125,282). Applicant respectfully traverses this rejection.

Claim 1 is as follows:

A mobile communication terminal comprising:
a plurality of communication interfaces;

a communication interface selecting section which selects a communication interface for transmitting data from the plurality of communication interfaces;

a terminal identification address assigning section which assigns a terminal identification address for identifying the mobile communication terminal to the data;

a communication interface identification address assigning section which assigns a communication interface identification address for identifying the selected communication interface to the data; and

a transmitting section which transmits the data being assigned with the two kinds of addresses via the selected communication interface.

Applicant respectfully submits that Matsugatani fails to disclose or teach at least the following as set forth by claim 1: 1) a terminal identification address assigning section that identifies the mobile communication terminal to the data; and 2) a communication interface identification address assigning section that identifies the communication interface to the data. Instead, Matsugatani discloses “a mobile terminal (20) that is designed to perform communication by using one of the communication systems S1 and S2 based on the provision of a mobile station network interface MS1 that can access communication system S1 and a mobile station network interface MS2 which can access communication system S2. In this case, the mobile station network interface MS1 makes access by using the IP (Internet IN) address of sub-network SN1. The mobile station network interface MS2 makes access by using the IP address of sub-network SN2” (paragraph 33 & figure 1).

“The mobile terminal (20), which communicates with one of the base stations BS1-1, BS1-2, BS1-3, etc. by using communication system S1 and with one of the base stations BS2-1, BS2-2, BS2-3, etc. by using communication system S2, has its communication partner in each communication system determined by roaming.

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Roaming is the scheme of handing over communication among different base stations within the same communication system" (paragraph 34 & figure 1).

In view of the foregoing, Matsugatani does not disclose a terminal identification address assigning section or a communication interface identification address assigning section, as the network interface MS1 uses the IP address of sub-network SN1 and thus does not have an address that is its' own. Further, Matsugatani uses a single interface (S1) that communicates with a plurality of base stations (BS1-1, BS1-2, BS1-3). As such, Matsugatani does not teach or disclose the mobile communication terminal as set forth by claim 1.

Urabe is not seen to remedy the defects of Matsugatani and is cited for its relevance regarding a portable information terminal. Urabe's portable information terminal may be connected to a mobile communication terminal that outputs access information (col. 5, ll. 36-40 & 50-54). As such Urabe's portable information terminal only takes in and holds access information, it does not assign an identification address to the terminal. As such, the combined teachings of the prior art fail to teach or suggest each element of the claimed invention. Thus, the combination suggested by the Office cannot render the claimed invention obvious.

Accordingly, Matsugatani in view of Urabe is not obvious over the present claim 1. Likewise, dependent claim 2 is not obvious for at least the same reasons as claim 1. In view of the foregoing, Applicant respectfully requests that the Office withdraw the rejection.

Claim 6 is as follows:

A computer readable medium storing a program of instruction executable by a computer to perform a function for a mobile communication terminal, the function comprising the steps of:

selecting a communication interface for transmitting data;

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assigning a terminal identification address for identifying the mobile communication terminal to the data;

assigning a communication interface identification address for identifying the selected communication interface to the data; and

transmitting the data being assigned with the two kinds of addresses via the selected communication interface.

As indicated above, Applicant respectfully submits that Matsugatani and Urabe fails to disclose or teach each element of the claimed invention, as set forth by claim 1 (a terminal identification address assigning section that identifies the mobile communication terminal to the data and a communication interface identification address assigning section that identifies the communication interface to the data). Claim 6 sets forth a computer readable medium program that executes the functions of a mobile communication of claim 1. As such, claim 6 includes all the limitations thereof, and is therefore patentable over Matsugatani and Urabe for at least the same reasons discussed above with regard to claim 1.

Since Matsugatani and Urabe fail to teach or suggest each element of the claimed invention, they also fail to teach or suggest a computer readable medium storing a program that functions as set forth by claim 6. As such, the combined teachings of the prior art fail to teach or suggest each element of the claimed invention. Thus, the combination suggested by the Office cannot render the claimed invention obvious.

Claims 4-5 and 8 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Matsugatani, et al. and Urabe and further in view of Fenner. Applicant respectfully traverses this rejection.

Claim 4 is as follows:

A mobile communication system comprising:

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a mobile communication terminal including:
a plurality of communication interfaces;
a communication interface selecting section which selects a communication interface for transmitting data from the plurality of communication interfaces;
a mobile communication terminal identification address assigning section which assigns a mobile communication terminal identification address for identifying the mobile communication terminal to data;
a communication interface identification address assigning section which assigns a communication interface identification address for identifying the selected communication interface to the data; and
a transmitting section which transmits the data being assigned with the two kinds of addresses via the selected communication interface; and
a mobile communication managing apparatus including:
a mobile communication terminal side receiving section which receives the data from the mobile communication terminal;
an address storing section which stores an address table in which the mobile communication terminal identification address and the communication interface identification address that are assigned to the received data are associated with each other;
a communication apparatus side transmitting section which transmits the data received by the mobile communication terminal side receiving section to a certain destination;
a communication apparatus side receiving section which receives data being assigned with a mobile communication terminal identification address;
a communication interface detecting section which detects a communication interface identification address that corresponds to the mobile communication terminal identification address being assigned to the data received by the communication apparatus side receiving section based on the address table; and
a mobile communication terminal side transmitting section which transmits the data received by the communication apparatus side receiving section via the detected communication interface.

Claim 4 sets forth a mobile communication system that comprises the same components as set forth in claims 1 and 3. As such, claim 4 includes all the

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limitations thereof, and is therefore patentable over Matsugatani, Urabe, and Fenner for at least the same reasons discussed above with regard to claims 1 and 3.

Accordingly, Matsugatani, Urabe, and Fenner are not obvious over the present claim 4. Likewise, dependent claim 5 is also patentable for at least the same reasons as claims 1 and 3. In view of the foregoing, Applicant respectfully requests that the Office withdraw the rejection.

Claim 8 is as follows:

A mobile communication method comprising:
selecting a communication interface;
assigning a terminal identification address for identifying a mobile communication terminal to data;
assigning a communication interface identification address for identifying the selected communication interface to the data;
storing an address table in which the assigned terminal identification address and the assigned communication interface identification address are associated with each other; and
transmitting the data being assigned with the two kinds of addresses to a certain destination.

As indicated above, Applicant respectfully submits that Matsugatani, Urabe, and Fenner fails to disclose or teach each element of the claimed invention, as set forth in claim 4. Claim 8 discloses a mobile communication method that utilizes the components of the mobile communication system as set forth by claim 4. As such, claim 8 includes all the limitations thereof, and is therefore patentable over Matsugatani, Urabe, and Fenner for at least the same reasons discussed above with regard to claim 4.

Since Matsugatani, Urabe, and Fenner fail to teach or suggest each element of the claimed invention, they also fail to teach or suggest a mobile communication method as set forth by claim 6. As such, the combined teachings of the prior art fail to teach or suggest each element of the claimed invention. Thus, the combination suggested by the Office cannot render the claimed invention obvious.

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In view of the foregoing, it is respectfully submitted that the application is in condition for allowance. Reexamination and reconsideration of the application, as amended, are requested.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned at the Los Angeles, California telephone number (310)785-4600 to discuss the steps necessary for placing the application in condition for allowance.

If there are any fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 50-1314.

Respectfully submitted,
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Date: October 30, 2009

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